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(54) DATA CONVERSION TRANSFER DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide the data conversion transfer device that connects independently a plurality of media access control MAC protocol local area networks LANs to a plurality of Internet protocol LANs.

SOLUTION: In the data conversion transfer device, cross-reference between sets of VCIs and destination IP addresses used for communication of IP packets with IP protocol LANs 1a-1c and sets of VCIs and destination MAC addresses used for communication for MAC protocol LANs 3a-3c and MAC frame is stored on a table 2a. In the case of receiving an IP packet, a specific section 2b references the table 2a to specify a destination MAC address and an output VCI and in the case of receiving a MAC frame, a specific section B2d references the table 2a to specify an output VCI to convert and transfer the IP packet and the MAC frame.

